

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID31589
Project Name	Project – Plasma Donor Application
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	During the COVID 19 crisis, the requirement of plasma became a high priority and the donor count has become low. Saving the donor information and helping the needy by notifying the current donors list, would be a helping hand. In regard to the problem faced, an application is to be built which would take the donor details, store them and inform them upon a request.
2.	Idea / Solution description	<ul style="list-style-type: none"> • The user interacts with the application. • Registers by giving the details as a donor and can request any blood group in need or donation. • The database will have all the details and if a user posts a request, then the concerned blood group donors will get notified about it. • The database contains all the details of the donation camp location and events.
3. T	Novelty / Uniqueness	The simple visual user interface displays the availability of plasma or blood group data for donation. The user can check for the specific blood group needed and can request for plasma at anytime according to their needs. The user will get an email notification indicating the availability of the plasma, also denoting whether it is available or in a short supply. The users can register and schedule an appointment in case of donation. The users who are volunteering for plasma donation will be provided with an e-certification.

4.	Social Impact / Customer Satisfaction	Many people would like to help those in need through donations of money, blood or plasma, but are unaware of technological innovations, including the use of social media, to identify and contact those in need which is difficult to take. Most of the facilities does not have access to patient's data to retrieve it quickly for any emergency conditions. A single platform to maintain all activities and information related to blood or plasma donation will increase the confidence of citizens to engage in these activities and to donate blood.
5.	Business Model (Revenue Model)	There is a free application for plasma donors. It is readily available and accessible to everyone. As it is difficult to find donors that match a particular blood type, this application allows users to register who they would like to donate plasma to and store that information in the database. By notifying current donors of the need to do so, it helps to preserve donor information. The need for plasma has increased significantly during the COVID-19 crisis and the number of donors is limited.
6.	Scalability of the Solution	The proposed solution helps the user to know the availability of plasma, to check compatibility of blood group, to register for donation and to request for the specific blood group in need. The application also sends an email notification if the requested blood group is available. The user can also schedule an appointment if they are willing to donate. The donors are notified of the need for donations, making it easy to find donors at the right time.